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# TECH NEWS



VOL. XXVI

WORCESTER, MASS., JAN. 15, 1935

NO. 12

## TRINITY TOPPLES TECH TEAM IN ONE-SIDED BASKETBALL CONTEST

Hartford Lads Outclass Red and Gray In Both Offensive and Defensive Departments To Take Home a 39-14 Victory

### MARTENS, SAMPERS, KEARNS SCORE HEAVILY FOR HARTFORD QUINTET

The speedy, sharpshooting Trinity College quintet swamped the Tech cagers, 39-14, last Saturday evening. The Trinity men, who have lost but three games in twenty-six starts, gave the Engineers solid proof of their ability on the basketball court. Immediately getting the lead, the Hartford team never let the issue be in doubt. The Bigler men seemed powerless to check their scoring, whereas the Tech offense was repulsed almost continuously.

During the first half Johnny Martens and Tom Kearns led the Hartford squad in building up their 19 to 6 lead. The closely guarded Tech team was able to tally but one field goal. Four successful foul shots completed their first half score. The second session was almost a duplicate of the first. In this period, the Engineers scored three field goals and two foul shots. The Trinity squad more than doubled their score in the last half.

What with wild passing and poor ball handling, the Engineers did not seem to measure up to their best ability. Their offense was unable to find holes in the Trinity defense with any regularity, and their shooting from the floor was anything but accurate. Even after they discovered that there was small chance to work in close, the Tech men refused to take long shots. Although Tech fought hard, the visiting team out-classed them in almost every department.

Trinity's team played a fast, hard game and proved themselves a classy outfit. Their high scorers were Martens, with thirteen points, Sampers with nine, and Kearns with eight.

The Summary:

TRINITY			
	fg	fp	tp
Martens, H	5	3	13
Nelson, H	0	0	0
Sampers, H	3	3	9
Mountford, rf	0	0	0
Kobrosky, c	0	0	0
Warner, c	0	2	2
Kearns, lg	4	0	8
Houlihan, lg	1	0	2

(Concluded on Page 2, Col. 5)

## TECH NATATORS BOW TO TRINITY

Hall Adds Three Pool Records; Falvey Wins Breast Stroke

Despite valiant effort by the Tech natators their Trinity rivals gained an impressive 56 to 21 victory in their new Hartford pool and succeeded in breaking three pool records. All three of these records were established by Albert Hall, Trinity's brilliant freestyle flash.

The only first place which Tech was able to secure was chalked up by Dick Falvey in the 200 yard breaststroke. By also scoring a second place in the 220 yard freestyle Falvey became Tech's high scorer for the afternoon. Harry Grey, Worcester's regular ace, captured

(Concluded on Page 5, Col. 3)

## INSPIRING TALK BY IMAGINATIVE ALUMNUS

Anonymous Article Presents College "Character" At Imaginary Dinner

The following paragraph is from "A fancied talk before an imaginary Alumni Meeting," which was written by an anonymous graduate. It well portrays the loyalty and sentiment of our older alumni.

"A college has REPUTATION and CHARACTER. You Alumni and guests know something of the REPUTATION of the Worcester Polytechnic Institute, but tonight if I only had the power, I would vividly sketch to you the CHARACTER of this institution as I know it; I would tell you of its traditions, of its distinguished personnel, professors of the past, Sinclair, Kimball, Kinnicutt, Smith, Cutler, Eaton and Dr. Homer T. Fuller, one-time President, to whose help and inspiration I, myself, owe almost everything today. I would picture the well-kept grounds; one would imagine a U. S. naval officer commands. I would give you a glimpse of the practical shops and laboratories, in many way unmatched in any college. You would catch a whiff of the fresh air from the splendid athletic field; you would cleanse yourself, body, mind and spirit, in the sanitary Fuller swimming pool. You would learn about the selection of the students, how limited in number, how chosen, not as prodigies, but as young men superior in hand, the physical; in head, the mental; in heart, the moral sense. There are other colleges to take the ordinary; Worcester must have the best. Is it not significant that so many of the great engineering societies draw on the Worcester Alumni to head their organizations? I would show you that it is possible to run an engineering college as to give a thorough engineering education, which is its mission, and at the same time to develop a fine social and cultural life and sense, promoted by a Christian student organization, an uplifting ten-minute voluntary chapel service, informal weekly dances and formal ones on occasion, fraternal societies and the open house of the President and his charming wife. You would listen to the earnest outstanding professors and teaching staff and meet their interesting wives. I would tell you about the Corporation, the efficient, careful Secretary, the wise Treasurer and the Executive Com-

(Concluded on Page 2, Col. 5)

### NOTICE

Until further notice the gymnasium and swimming pool will be open on Sundays from 2:00-5:00 P. M.

### CALENDAR

TUES., JAN. 15—

9:50 A. M.—Chapel Service.  
Rev. G. E. Heath.  
4:30 P. M.—Intra-mural Basketball, LXA-Friars, PGD-SAE.

WED., JAN. 16—

9:50 A. M.—Chapel Service.  
Rev. G. E. Heath.  
4:30 P. M.—Intra-mural Basketball, PSK-ATO, TUO-SOP.  
4:30 P. M.—Band Rehearsal.  
7:15 P. M.—Cosmopolitan Club-S. R. H.  
Basketball—Tech v.s. R. I. State (away).

THURS., JAN. 17—

9:50 A. M.—Chapel Service.  
Rev. W. G. Huber.  
4:30 P. M.—Glee Club Rehearsal.  
4:30 P. M.—Intra-Mural Basketball, PSK-SOP, Friars-ATO.

FRI., JAN. 18—

9:50 A. M.—Chapel Service.  
Rev. W. G. Huber.  
4:30 P. M.—Intra-mural Basketball, TX-LXA, TUO-SAE.

SAT., JAN. 19—

Swimming Meet—Tech vs. Mass. State College.

MON., JAN. 21—

9:50 A. M.—Chapel Service.  
A. J. Schwiager.  
4:30 P. M.—Intra-mural Basketball, PSK-FRIARS, PGD-LXA.

## GAFFERT TALKS BEFORE SIGMA XI GATHERING

Improvements In Power Plant Efficiency Discussed In Meeting

On Monday evening, January 7, a meeting of the Sigma Xi society was held in the lounge of Sanford Riley Hall, at which time Professor G. A. Gaffert delivered a very interesting and instructive lecture on the subject of "Modern Improvements in Central Power Plant Design." The meeting, quite well attended by members of the society, was called to order by President F. R. Butler, who at once introduced Prof. Gaffert.

The lecture was begun with a short review of the thermodynamic principles which are made use of in power plants, in transferring the energy from the raw fuel into the turbines, or engines from which it might be distributed. Prof. Gaffert showed the theoretically ideal conditions for this operation which would be achieved by following exactly the cycle of Sadi Carnot, and stated that all the modern improvements which have so much bettered the efficiency of power plants of today have been brought about through changes tending to approach the conditions of Carnot's cycle.

One of the most important methods of securing better efficiency is to use higher pressures, and various examples were cited to show the enormous increase in steam pressures in the last

(Concluded on Page 5, Col. 4)

## PROF. TAYLOR SPEAKS IN CHAPEL ON PURPOSE, EFFECT OF RELIGION

Contentment In the Workaday Realm Is Dependent On Success ---Success Depends On Three Prerequisites

## LARGE STRIDES MADE IN SHORT-WAVE RADIO

R. L. Reinhartz Tells of Experiments to Local "Hams" at S. R. Hall

Mr. J. L. Reinhartz, the noted radio experimenter, spoke on some experiments he had been making on antennae last Friday in the Sanford Riley Hall before the Radio Club and a large gathering of local amateurs. Mr. Reinhartz described a new type of antenna array, which he has recently developed, and which promises to increase the reliability of radio communications many-fold.

Briefly the idea is to regulate the angle of radiation and thus control the signal strength at a given locality. Mr. Reinhartz is now carrying out communication tests and asked for volunteers to help him. He received promises of help from several amateurs and also the Radio Club.

Addressing a large number of local radio "hams" at Sanford Riley Hall Friday evening, John L. Reinhartz, consulting engineer to the R. C. A. at Harrison, N. J., gave an interesting discussion of a new and unusual type of radio antenna for transmitters, developed for amateur use, and also gave an unusual demonstration of the use of cathode rays.

An experiment with cathode rays announced on Page 6, Col. 5)

## SIGNOR PAPPANO FENCING MASTER

Lessons For Twenty-five Cents; Classes Will Be Held Mondays in Gym

A small group of the students here at school have organized a class in fencing, under the direction of Signor Pappano, Italian fencing master of international repute. Although Signor Pappano has put us through a rather stiff set of exercises, all the members are agreed that the sport has few or no equals when properly pursued, and that Signor Pappano is the man to guide beginners.

Several notices have been posted on the bulletin board at Boynton Hall but to date they have not, judging from the turn-out, been noticed by many fellows. Lessons are, contrary to popular opinion, very inexpensive and, with a class of from twenty to thirty fellows would be less than the small sum of twenty-five cents per lesson. The

(Continued on Page 5, Col. 5)

## MENTIONS ABILITY, WILL TO DO AND COOPERATION AS SUCCESS PREREQUISITES

Whatever subject may be discussed in this room, the chapel period has a spiritual significance. For a time it takes men away from striving toward a goal and holds them in the realm of meditation, which is akin to religion. Religion is essential to a normal life; it is something to tie to in the cross-currents that most of us encounter, and it helps in the achievement of true contentment.

We must spend most of our time not in the meditative but in the workaday realm. Contentment in that realm depends largely on success, not the honors, nor the wealth, nor even the livelihood that success sometimes connotes, but the achievement itself. To win in life is an honorable ambition. To be a good loser may be the mark of a good sportsman, but the best sportsmen are good winners.

To win in any activity a man needs at least three qualities: the ability to do, the will to do, and the capacity for teamwork. Men possess these qualities in varying degrees according to their inheritance, early training and

(Concluded on Page 6, Col. 1)

## TWENTY YEARS AGO AT TECH

W. E. Shumway, '16, was elected Captain of the 1915 football team at a meeting of the lettermen. Shumway was the outstanding player in the R. P. I. game.

It is rumored that the Seniors are planning a Tech night to be held soon. The NEWS has advocated this plan for sometime but at last a group has been found that can put it through.

A 1915 problem for a 1935 chemist: If the filtrate runs through the filter at forty miles an hour, what will the residue?

Holy Cross does not appear on next year's football schedule. It is doubtful whether relations will ever be resumed with the Purple squad as neither team has made any attempt at arranging a game. Last year the scheduled game was put off until it was too late in the season to play. For a few seasons it has been noticed that relations have been somewhat strained so far as the two colleges are concerned.

Plans are well under way for the erection of an Alumni Gymnasium. Bids are being opened this week.

A. W. Francis, '17, was elected captain of next year's cross-country team.

The relay team easily defeated New Hampshire at Boston, last Saturday night. Boston College will be the next opponent, while Mass. Aggies will be run at the B.A.A. Games in two weeks.

Please make returns of Tuberculosis Christmas Seals at Alumni Office now.



# TECH NEWS

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## THE PEDDLER - 1935

We are nearing the halfway mark in the present collegiate year, and the Seniors are almost ready to say "goodbye" to their undergraduate careers. To make it possible for them to carry away with them pleasant memories of the school and their classmates, the "Peddler" Staff is working on the 1935 year book. But—to make their work a little easier, the least that the rest of us can do is to offer them all the co-operation that they request.

In order that the Senior section may be put into shape as soon as possible, the Staff asks that all Senior pictures be taken before February first, so that the glossies and engravings may be made. Also, about seventy-five per cent of the student body has signified its approval of the new "Peddler" Plan, and that part that hasn't will be approached during the following week. To refresh your memories, the plan calls for the payment of one dollar on the second Thursday after registration for the second term, and for those in the Senior section, a payment of two dollars and a half. Please bear this in mind, and be prompt in your payment, in order that the budget may be made.

The 1935 "Peddler" will be as near a perfect book as possible in every way. It will be different from all preceding "Peddlers" in style, completeness of content, and change of design. It will truly be a book worth owning, so if any of us haven't done our part yet, let's get busy and do it. Let no one say that he stood in the way of progress.

## EXAMS

In two weeks we will be in the midst of the toughest grind of the school year, taking first term Finals. If a man is unfortunate enough not to be exempt from any of his courses, he is in all probability in a state of uncertainty as to his standing, and therefore is laboring under an increased handicap of worry. Also, he is forced to undergo five or six exams in successive days, and where these exams assume the proportion of trials for his life, his worry is not merely added to, but multiplied by his uncertainty as to the jury's verdict on those he has taken on the preceding days. Thus when this seemingly interminable week of Hell does end, he is literally and actually a complete nervous wreck.

Men are but humans, and human flesh is decidedly weak, reacting strangely to both mental stimulation and dejection—and what could be more dejecting than to get out of an exam at noon, so full of misgivings that all desire to eat has left, only to sit down to ten or twelve hours of intensive concentration designed to cram back into the mind all the knowledge and information that has been shoved aside in a similar procedure the night before!

We are all more or less aware of the fact that most instructors do devote some of the class time to review, but in the final analysis, this is just so many dry leaves before a hurricane.

Solution? There are hundreds of them, one either better or worse than Tech's at every college and university in the land. Here is one—mark the man on how much of the "course" he knows, rather than how much of the exam he can't do in three hours. Another—allow a reading period before exam week, during which a man can study what he needs, and can consult with the instructors about his own problems. Again—take two weeks for the exams, leaving a full day and a half for the final preparation rather than a scant half day. These are but a scratch on the surface of the many possibilities, and none of them may meet with Administrative favor; from time immemorial Tech has had a Marathon examination system, but if the Administration could see its way clear to insert a few rest periods and time-outs in a tough game, the players would last a lot longer, and the mortality rate might be lowered quite considerably.

## EDITORIAL ON RUSHING

Well it's all over! With the exception of a few Freshmen who are still undecided, the fraternity rushing for 1934-1935 is complete and things around the school are slowly straightening out again. It won't be for some eleven

months that another period like the last will be encountered so there is still plenty of time to make any improvements. First, let us briefly review the situation.

From August, when the first list of new Freshmen came out, through November the houses on the Hill were working, working hard, to get to know the Freshmen and to make the Freshmen know them. Every fraternity man gave up considerable of his time, to say nothing of worrying in order to meet all of these new men and pass an opinion on them. That part wasn't so bad, but what a climax! The second week of December saw the student body running around like a bunch of chickens with their heads cut off, all because of this concentrated rushing right in the middle of the school year. It is very true that the faculty this year did considerable to make it easier for us. We certainly appreciate that. In most classes, quizzes and problems were delayed until after rush week, making the following week nearly as bad as rush week itself. Nevertheless, the faculty did its bit toward making rushing easier.

The big thing is that rushing consumes too much time and energy. And the major part, at least the most malevolent part, are the three weeks between Thanksgiving and Christmas into which the preparations, actual rushing, and monthly exams were crammed. Those three weeks, only nineteen days that seem like nineteen months, are the downfall of a goodly percentage of big men on this campus. Now it is a recognized fact that fraternities are a necessary part of life at Tech; that was all talked over in this column last November. Assuming this to be the case, something should and must be done to change the situation so that "these big men" will not be flunked out because they are unselfish enough and have enough fraternity spirit to forget their own good and give everything for the life of the fraternity.

Just what can be done. Various methods followed at other colleges have been thought over and discarded. The Interfraternity council is trying to make changes but always finds that there is a huge obstacle in the path of a change in the present system. Rush Week cannot be moved forward because of fall sports and mid-semester exams. It cannot well be stretched over two weeks because that would give us two hells in place of one. It cannot be put into the week preceding school in the fall for obvious reasons. It cannot be delayed till the sophomore year for more obvious reasons. To repeat, just what can be done? It is a question of prime importance in our little world at Tech, and changes must be made so that the destructive influences of our present system will be abolished. Things like this can't go on forever and the sooner they are changed the better.

Every man in this school who is interested in fraternities one way or another should wake up to what the it over with an Interfraternity Council score is, figure out something, and talk delegate. Nothing can be done if we just sit and regret the fact of rushing. We absolutely must make a change and the sooner the better. What do you think?

## CIVIL ENGINEERING NOTES

The Civil Engineering Department has started the practice of holding occasional seminars, as has been done for some time in certain other departments of the Institute. On November 2 Professor Howe discussed conclusions respecting the nature and behavior of concrete determined by the research of recent years, and described two unusual recent examples of reinforced concrete construction in Germany. On December 4 Professor Meyer described and explained methods of testing the adjustment of surveying instruments by means of an auxiliary surveying instrument used as a collimator, which

methods have only very lately been advanced for field adjustments and are not commonly known to the profession of civil engineering.

## ALUMNI TALK

(Continued from Page 1, Col. 2)

mittee, the Living Endowment Organization, the Tech Council, the live Alumni Association, the Band, the Glee Club, the Athletic Association sponsor-

## A la Airplanes

The days of the cutting wing collars seem to be passing rapidly, for the latest designs of formal neckwear are bringing into vogue a collar with a wide wing-spread which should prove more comfortable. The collar illustrated in the accompanying inset is one of the smartest of the new cuts, and the square-end tie worn with it gives it a truly modernistic appearance. The tie is white, of course, and should be tied with a small knot.

When it comes to the small accessories that must top-off the collegian's formal attire, care should be taken to purchase only those that are ultra-modern in design, and should include studs and cufflinks, watch chain, suspenders, socks, etc. More about these later.

ing clean sports and other organizations, all taking a part to make the Worcester Polytechnic Institute the unique, the outstanding Engineering College of all. My friends, I must not go on, but let me say that if I had a hundred sons, I should want them all to go to Worcester, and further than that, if I also had a hundred daughters, there would be a hundred applications to take them too."

## TRINITY BASKETBALL

(Continued from Page 1, Col. 1)

Ferrucci, rg	0	1	1
Weber, rg	1	2	4
O'Brien, rg	0	0	0
Totals	14	11	39

## TECH

	fg	fp	tp
Hendrickson, lf	1	1	3
Grublevskas, lf	1	1	3
Svenson, rf	0	2	2
Dann, c	1	0	2
Sulaskas, lg	0	1	1
Phelps, lg	0	0	0
Botcher, rg	1	1	3

Totals 4 6 14  
Reece, Bennett; Umpire, Carrigan.



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## ALPHA TAU AND PHI SIG TIE FOR INTRAMURAL BASKETBALL LEAD

Undefeated Teams to Meet Wednesday to Decide Fate of Trophy—Much Spirit Is Shown in League Games

As the Intramural basketball competition entered its second week of play, P. S. K. and A. T. O. alone survived the fate of the majority of the teams and remained in the undefeated column.

The schedule got under way on January 3 when P. S. K. downed the defending champions T. X. after a hard fight. On the same night, S. A. E. had little trouble in downing S. O. P.

On Friday, January 4, A. T. O. started its winning streak by defeating P. G. D., while L. X. A. showed strength in coming out on top over T. U. O.

Monday found S. A. E. deserting the winning column losing to the strong Friars team. T. X. managed to win its first game by defeating S. O. P. However they were forced to the limit, with the S. O. P. team leading at the half.

Tuesday A. T. O. continued its wins by overcoming L. X. A. 22-13. P. S. K. managed to down P. G. D. with the aid of Hodgkinson who scored twelve of his teams 22 points.

The fastest game of the series took place when P. S. K. defeated L. X. A. on Wednesday by a small margin. P. G. D. easily downed S. O. P.

On Thursday T. X. upset the dope by easily upsetting the Friars who had appeared in previous games to have one of the strongest teams in the league. A. T. O. defeated T. U. O. 17-13.

On Friday S. O. P. continued to lose, this time to T. U. O. while the Friars again met defeat at the hands of P. G. D.

The schedule for next week calls for some interesting games, with the A. T. O.—P. S. K. game on Wednesday topping the card. This game will no doubt decide the championship.

The standing:

	Won	Lost
P. S. K.	3	0
A. T. O.	3	0
T. X.	2	1
L. X. A.	1	2
P. G. D.	2	2
Friars	1	2
S. A. E.	1	1
T. U. O.	1	2
S. O. P.	0	4

### CHEMISTRY DEPARTMENT NOTES

At a recent weekly seminar of the department, Mr. Raymond Crawford spoke on "The Genesis of the Elements." Dr. W. L. Jennings was the speaker on January 4, 1935. At this time he gave a very interesting talk on "Recent Work on Alcoholic Fermentation."

A recent visitor to the department was Edward J. P. Fisher, W. P. I. '21, who at present is physical metallurgist at the Keystone Steel and Wire Co., Peoria, Ill. Mr. Fisher was recently awarded the Wire Association medal in recognition of his contribution to the advance of the wire industry. His latest scientific publication consists of a paper on "Cold Drawn Steel Wire" which appeared in the September number of "Wire and Wire Products."

The members of the department were pleasantly surprised at the weekly Seminar on January 5, 1935 by a visit from Mr. Henry C. Fuller, Class of '01, and father of Henry S. Fuller of the present sophomore class.

Mr. Fuller briefly described to the members of the class some of the important and interesting work in which he is now engaged at Washington, D. C. This work in which considerable success has been obtained up to the present time is concerned with the application of orthophenylphenol in relieving septicemia. Mr. Fuller very interestingly described experiments on animals and human beings, the results of which indicate that the use of this

## TECH WINS OVER COAST GUARD 39-31 IN FAST GAME

Worcester Comes From Behind To Win In Second Half—Svenson Stars

The Tech quintet downed the Coast Guard Academy, 39-31, at New London, on Tuesday, December 18. Svenson scored 20 points to become a great factor in Tech's win. Superior height gave the Engineers an advantage which resulted in a victory over the Cadets.

During the first 20-minute period, the Bigler squad found difficulty in eluding the Coast Guard players. The Engineers, therefore, found very few chances to score. When the first half ended 23-18 in favor of the Cadets, Coach Bigler decided to utilize to the utmost the greater height of his players. He sent in Marshall Dann, a six-foot, three-inch, to replace Svenson at center. Svenson shifted to left forward.

With this change effected, Worcester quickly took the lead and steadily increased it. During the second session, the Tech squad scored 21 points against the Coast Guard team's 8 points. Svenson led the attack, tossing five shots through the hoop. Dann, towering above the Cadet defense, was able to recover the ball off the basket and score in that way four times.

During the first half the Cadets made a fine showing against the Tech squad. They seemed to have no trouble in breaking up the Engineers' offensive tactics, whereas their own offensive worked exceedingly well. The first period ended with Tech behind, 23-18.

However, Pete Bigler changed his strategy in the second half, and sent in his tall players with orders to use their height to the greatest advantage. It wasn't long before Tech was in the lead, where they stayed to the end. The closing whistle saw Worcester Tech winning, 39-31.

compound may be one of the important medical discoveries of the last few years since certain types of septicemia which hitherto have been almost always fatal have responded favorably to the orthophenylphenol treatment in the few cases in which it has been used.

This seminar which was the first of the new year was particularly instructive and interesting since in addition to Mr. Fuller's fine talk, Dr. W. L. Jennings, head of the Department described recent work on the mechanism of alcoholic fermentation.

### SKEPTICAL CHEMISTS

At the last meeting of the club, Victor Olson was awarded membership in the American Chemical Society. The award was based on material and presentation of a student talk given before the society, and on attendance at meetings. The competition extends over a period of one year and is annual.

Drs. Butler and Jennings were the judges, and membership was established by the members of the faculty.

In addition to the award, Mr. Hardy gave a talk on a "Pressure Method for the Manufacture of Sulphuric Acid," and Mr. Shepardson, Junior chemist, spoke on "pH—Its Meaning and Applications."

This was followed by discussions, and adjournment, and refreshments.

### CAMPUS CHATTER

Although the Tech cagers were highly outclassed in last Saturday's game, they lost by a closer score than any of the other Worcester colleges. The team certainly showed the effects of a long lay-off; but even if they were going hot, Trinity, with all-Eastern "Pepper" Martins, couldn't have lost. With the makings of a good team, however, there is no reason why we shouldn't finish better than .500.

One of the fraternities obliged the school in general, I guess, and had a pledge dance after the game. Many of the most heralded girls in the Junior class were there. The "Ace" showed how independent he was by having the highly advertised "blue blood" around. The "biggest social club" on the Hill, who have been telling people what a hard time they had holding dances because of other houses coming, left themselves wide open. Quite a few of them were at the aforementioned pledge dance.

The Seniors will have nothing to look forward to now but reports and exams since they got rid of the all-day water wheel test out at Chaffins. That seemed to be the big object of conversation.

Interfraternity basketball is assuming its usual status of a rough and tumble sport. The black and orange diamond boys should be thinking seriously of discarding their new silk panties and returning to the old standbys. One of the houses, trying to get the jump on the rest of the league obtained the services of the former Jayvee coach. After the team lost two games, however, he quit. They still serve oranges between the halves, however.

This can be classified as "Advice to freshmen No. 18A." What to do with your old freshman hat during winter.

1. Give it to your six-year-old brother as a present.
2. Shellac it and tack it on your wall.

3. Slit it down the seam carefully, cut off the petite "button" that adorns the crest, and use it as a wash-cloth or guest towel.

4. Use the button as a man in the game of checkers.

5. Starch it and use it as a spittoon.

6. Starch two hats, hinge them together, and use them as a mold for massive snowballs.

7. Pound a girder into the floor and play quoits with your roommate.

8. Hang it up in your room next year to prove to salesmen that you're not a freshman.

9. Wear it.

10. Eat it. Jack-o-lantern.

One of the Tech men who strayed down to Danny Duggan's a while ago ran into little Mary. She wishes Eddie Hatch a Merry Christmas and a Happy New Year. Be sure it is a safe and sane fourth, next July Eddie!

### LIBRARY NOTES

To the M. E. library has just been added a book which demonstrates the technical possibilities of die castings, sets forth the characteristics of various suitable alloys, explains the best method of die-cast designing, and presents essential facts on testing and finishing die castings. It is *Die Castings* by Herbert Chase, M.E.

The report of the Commission of Inquiry into National Policy in International Economic Relations has printed its findings in the volume, *International Economic Relations*, a copy of which is in the General Library. This commission is a non-governmental, non-political group established by the Social Science Research Council and financed by the Rockefeller Foundation. As a result of its hearings, it advocates the settlement of the war debts, removal of many tariffs, granting of wider powers to the Tariff Commission, stabilization of the dollar's gold content, freedom for private foreign loans, and abandon-

ment of restrictions on agricultural exports.

A review of a new technical field *The City Manager Profession*, has just been added to the General Library. It was written by the director and the assistant director of the International City Managers' Association, Clarence E. Ridley and Orin F. Nolting, respectively.

A professor in the physics department playing about with a machine that will stop auto traffic in any part of the city upon which it is trained, an eternal triangle and an entire city looking for this unknown terror is the main features of C. S. Forester's new novel, *The Peacemaker*.

Particularly suited to the engineering student, this new novel is one that will have the reader on edge from start to finish. In Doctor Pethwick, the genius who invented his machine, one can readily see that it might even happen on our campus, there being a few profs here who could fill the part effectively. Dorothy Laxton, the girl in the case, is one of the modern type of women who can see both sides of a case, weigh them and make her own decisions and abides by them. The part she plays in the story is a strange and somewhat unusual one.

This book, written by C. S. Forester, is one of many interesting books that Mr. Forester has written. This, as are his others, is packed with interest throughout the entire book. The story does not lag in the least and its finish is one that is far from expected.

To those who have a little spare time on their hands we recommend this book as one of the outstanding of the past year. Little Brown & Co. of Boston are the publishers.

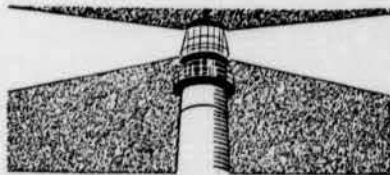
### A. I. E. E. NOTES

The last meeting of the W. P. I. Student Branch of the A. I. E. E. was held Monday evening, January 18, at Sanford Riley Hall. Mr. P. L. Peter- (Concluded on Page 4, Col. 2)

## G-E Campus News

### SEDAN TO SYDNEY

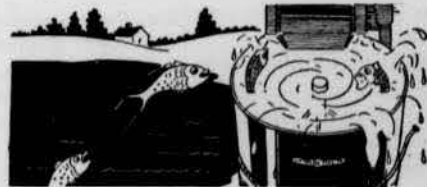
Radio Engineers were up bright and early not long ago to make a two-way radio-conversation test between the General Electric short-wave station W2XAF near Schenectady and station VK2ME at Sydney, Australia, 10,000 miles away. It was 6:30 a.m. in Schenectady and 10 o'clock at night in Sydney. Everything was in readiness, but C. H. Lang, U. of Michigan, '16, manager of the Company's Publicity Dept., who was to talk to officials in Australia, was delayed at his home. On a chance, the radio police test car, which G-E engineers had equipped for two-way radio communication for the Boston Police Dept., was sent to pick up Mr. Lang. From the car, Mr. Lang's voice was sent by ultrashort waves to the G-E plant and from there by land wire to W2XAF for transmission to Australia. Conversation from Australia was picked up at the short-wave station, sent by land wire to the plant, and from there by the special police transmitter to the moving car. So successful were the results, despite the complicated hook-up, that the small sedan continued to cruise about the Schenectady streets for 15 or 20 minutes more. Mr. Lang carrying on his part in the conversation through an ordinary French-type telephone.



### YELLOW LIGHT ON CAPE MAY

The orange-yellow light of General Electric sodium-vapor lamps now illumines roadways in more than 50 installations. It is also being used to light the facades and towers of buildings. But now this light has another application—in the lighthouse at Cape May, N. J., at the entrance to Delaware Bay. The Cape May Lighthouse was erected in 1859. Its light source is 165 feet above mean high water and can be seen for approximately 19 nautical miles under clear atmospheric conditions.

In this test with the sodium-vapor lamp, all equipment has been supplied by the General Electric Company, and the installation was made by the Fourth Lighthouse District.



### FISH GYM

The patrons of Joe Medway, a restaurateur up in New York State, literally fished for their dinners. They chose and netted their trout from a large pool. But what made Mr. Medway and his patrons unhappy was that the trout, presumably because of the treacherous refinements of effete pool life, became sissies. They just nosed around listlessly.

One day Mr. Medway gathered up a batch of netting by the pool and placed it in his General Electric washing machine for a rinsing. When he removed the net, there was a trout jumping about the machine in a most sprightly fashion. It exhibited such joyous abandon, in comparison with its sluggish brothers in the pond, that he turned on the activating element again to give it real satisfaction. The trout then accelerated its speed and leaped about in the swirling currents as though it were swimming for life or love in a mountain stream. Mr. Medway threw it back in the pond. It was off like a flash, and had soon churned up the placid waters into a sea of tiny whitecaps with its capers. Then, says Mr. Medway, the bit of spotted dynamite swished in to shore, came to a spray-rising stop, and with wiggles and flops implored its owner for another turn in the washer.

Well, Mr. Medway bought six more General Electric washing machines, and now all the trout are systematically exercised. Mr. Medway is willing to bet that there isn't a single speckled trout from the wildest streams in the country that could last a half a round with his trout. "Because," he says, "they're scientific trained."

96-91-FBI

GENERAL ELECTRIC



# PREXY STRESSES NECESSITY FOR COOPERATION

## Loyalty to College or Company Essential to Healthy Spirit

Since we gathered here last, one of the church's greatest festivals and a great civic observance have been held, and we—some of us—have enjoyed a respite from classroom work unworried because of work well done there, while others of us have taken examinations to try and remove conditions, an undertaking which we trust was successful.

And now we begin a new season of fellowship in the classroom and on the campus. I think of no better prayer with which to open college and our individual new year resolves than this one of Robert Louis Stevenson's:

"The day returns and brings us the petty round of irritating concerns and duties. Help us to play the man, help us to perform them with laughter and kind faces, let cheerfulness abound with industry. Give us to go blithely on our business all this day, bring us to our resting beds weary and content and undishonored, and grant us in the end the gift of sleep."

Our immediate tasks call us. They are such as to fit ourselves for life—spiritually, morally, mentally, and physically. Let us tackle these tasks in the spirit of Stevenson's prayer and thus make 1935 a worth-while year. As encouragement we find nothing better than the Christmas message: "Fear not—good tidings—great joy," and we shall do well if we keep that in mind.

The last talks given here at chapel were both on loyalty. That quality seems uppermost in men's minds these days, and especially in the past week have leaders in industry stressed its necessity.

So this morning I shall talk a little more on the subject, and urge that your loyalty be ever to the big organization of which you are a part. The small units of the whole in which we find ourselves a part need our support, and as we learn how to be loyal to our studies, our sports, our fraternities, we become more loyal to the main organization, our college. The college needs you just as much as your business will need you later on.

Recently I learned that students from a certain college were not acceptable as a part of a big manufacturing plant. Those that had come from there did not appear to boost their college, in other words were wanting in loyalty; and so the manager felt they would not be loyal rooters for him, poor salesmen actually, and so no chance for men from that college.

It is for us to train ourselves in our college days to absolute loyalty to our alma mater. The time to do this is now, not later. It is easy and enjoyable to train yourselves in loyalty. It simply requires your attendance at all college events—not a passive attendance, but a really active one—class room, class meetings, all campus games and activities, all events on the Hill. You are the spirit, the soul of the college, for without your life the Hill is dead; as lifeless as a battleship whose commission pennant is not flying, denoting that she has no crew, no soul in other words. And, I can picture nothing in the world more dead than a ship in that condition. Such attendance brings rewards in present day happiness and in making you unconsciously the type of man any organization will be proud to count in its personnel.

Though it is years since he passed from us, I often think of a fine youth who did all these things religiously and who won therefor an enviable position in the hearts of all his classmates who found so much to admire in his character.

Was not that because he had succeeded better than most? He had learned true loyalty. We must acquire that quality here.

In any group we cannot do everything, but loyalty teaches us how to cooperate and help when we can. This anecdote of the English Admiral Bayly, in direction of the submarine patrol off Queenstown, is typical of loyalty to a cause. The Roman Catholic Bishop of Cloyne, Robert Browne, asked Admiral Bayly whether he could help about forty two bells for the cathedral which awaited shipment at Liverpool. "Yes," said the Admiral. "Send them over in the next steamer, and we will obey the scriptural injunction to watch and pray. I will watch, and you pray." Needless to say the bells escaped the U-boats. That Queenstown command where our "splendid Pringle"—as the English Admiral dubbed the American commander, who worked with and for him—constantly exhibited loyalty to the big thing and showed the world what Navy spirit and loyalty meant. The will to win unless it had been backed by loyalty would have availed nothing then, and unless loyalty is present in a job it won't now.

Our college spirit and loyalty ought to be just as good. Let's enter the year 1935 determined to train and to educate ourselves to be loyal shipmates. Elbert Hubbard greatly understates the value of loyalty when he writes "An ounce of loyalty is worth a pound of knowledge."

To conclude, here's a little New Year prayer by Reverend A. C. D. Noe that is worth following:

"Lord, give us grace to meet this year With faith and unafraid;  
And at its close to register,  
A better record made.  
A record filled with high resolves,  
Converted into deeds,  
Inspired by love and sympathy  
And other people's needs."

I feel that a certain gentleman who called but last week in behalf of a student here has proven himself to be one of the most loyal friends a person can imagine and that he has more than measured up to the prayer. The world is not bad when people like him live. Let us try to measure up likewise to the ideal shipmate.

### A. I. E. E.

(Continued from Page 3, Col. 5)

son, Superintendent of Equipment for the New England Power Company, was the speaker and he took as his subject "Common Sense in Engineering." With a service record with New England Power that reaches back to the beginnings of the present company, Mr. Peterson has had much to do with construction, installation, and inspection of electrical equipment and machinery. His specialty, however, is trouble shooting. At this occupation he is very effective. With a vast store of experience and practice to draw from the topic "Common Sense in Engineering" received a very thorough treatment Monday evening.

President Gullo reports about 40% of the Electrics in the two upper classes are enrolled in the A. I. E. E. with many more applications yet to come in. A questionnaire has been circulated among the upperclassmen in an effort to get the reactions of the men on certain proposals, questions, and facts pertaining to the local branch here at W. P. I. With increasing enrollment, President Gullo is taking the questionnaire as a means of getting a consensus of opinion with the object of a larger and finer Student Branch here on the Hill.

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## NEW HONORS FOR FRITCH, B. & M. R. R.

### W. P. I. Man, Director of Budgets, Occupied Important Offices

Howard F. Fritch, director of budgets of the Boston & Maine railroad was elected chairman of the motor transport division of the Association of American Railroads recently at a meeting in Chicago. This association is the body to become president of which J. J. Pelley resigned the presidency of the New Haven railroad.

Fritch has been active in the organization and operation of the Boston & Maine Transportation Company, the subsidiary of the Boston & Maine railroad operating its buses and trucks.

A graduate of Worcester Polytechnic Institute in 1910, Fritch went to work at once for the Eastern Massachusetts Street Railway Company and had become assistant general manager in 1924, when he joined the forces of the Boston & Maine railroad. He organized and operated the motor coach service of the transportation company and became president and in August 1926 he was appointed passenger traffic manager of the Boston & Maine railroad.

## INTER-COLLEGIATE PRESS NOTES

Cleveland, O.—(IP)—The so-called "rugged individualists" of the United States are men "who never got out of their childhood," said Dr. Jacob C. Meyer, associate professor of history at Western Reserve University, last week.

"Those people were valuable citizens" he said, "when society was expanding. In other circumstances they must be curbed for the good of society. Society suffers from their grabbing. About all you can do with them is to put them in one of our Norman castles at Leavenworth."

"For 400 years they have been free to go and pick up whatever they could find. This is the first generation since Adam and Eve left the Garden of Eden that faces a world in which there are immigration laws and where immigrants have no place to go."

"The first immigration law was passed in 1883, and that was the first sign of a new day and the first sign that it had become necessary to regulate property. Before that for 400 years, since the discovery of America with all its wealth, we were children. We took territory. When there was no more territory to take from the naked heathen we had the World War. Then we began to take from one another. One man took a bonus of \$1,500,000."

"These people who had been trained for 400 years to steal everything in sight thought they could continue to do so in spite of the fact that the frontier had passed. We reached the place where instead of expansion we had to have regulation—and it was a bitter pill for the big, trained thieves. That is true not only of America but of other nations."

"Why can't a man go into Wall Street now and lose all his property? One thing has changed. When a man loses his property now he becomes a charge upon the state. That wasn't true 30 years ago. He could still go elsewhere and be rich again. This is the first generation that has seen a stabilized civilization."

San Juan, Puerto Rico—(IP)—"To Governor Robert H. Gore from the student body of the University of Puerto Rico," was the inscription on a book presented to the island's chief executive recently.

But it was no goodwill offering from the Puerto Rican students. The book was a copy of Antonio Carreno's



## With Wishes

For a

## Happy

and

## Prosperous New Year



## The Tech News

Spanish Etiquette, and it was purchased with a subscription taken up by the students after the governor had twice refused to see a student delegation calling at his office to protest the appointment of Rafael Alonzo Torres to the board of trustees of the university.

The protest, the students said, was made not because of the fact that Torres is a Socialist, but because he did not have the educational qualifications for the office. The students suggested the names of several other Socialists they thought better qualified for the position.

When they could not see Gov. Gore, the students cabled a protest to President Roosevelt at Washington.

Latin American students always take more than an academic interest in the affairs of government, and they are considered as powerful political influences.

This was demonstrated particularly in Cuba, where the A. B. C., largely a student organization, finally was successful in overthrowing the government.

(NSFA)—Although there has been perfected an instrument which can split time into one one hundred billionth of a second, we have not yet, nor will we ever, acquire the ability to measure time accurately, according to Professor E. W. Brown, Yale University astronomer. But there are many causes, celestial and terrestrial, he asserted, that act as thieves of time. The moon is one.

(NSFA)—According to Coach Brutus Hamilton of the University of Kansas, Phidippides took four hours to run the original Marathon of 26 miles, 385 yards, the present Olympic record for which is two hours and thirty minutes, held by Hans Kohlemlanein. This discrepancy may be accounted for by the fact that Phidippides fought in the Battle of Marathon all day before making the run.

(NSFA)—"The cast-off garments of the intellectually prominent of one age are found in the soiled tatters covering the ignorant many in the next," said Professor Dixon Ryan Fox of Columbia University in a recent lecture

at Oberlin College. "We go from the east to the west, we find that we are slowly going down, and that the intellectual garments once cast off in New Haven may now be worn by the intellectually prominent in Arkansas."

(NSFA)—In a paper on the "College Graduate in Business," read at the recent Personnel and Office Management Conferences in Pittsburgh, Pa., the following significant statement was made: "The demand for college graduates up to the year 1940 will be lax. The outlook will be unusually bright for the exceptional man because it is estimated that by 1940, 57 per cent of staff positions paying \$4,000 or more a year will be held by college graduates, as compared to 35 per cent in 1930."

Berkeley, Cal.—(IP)—Because they have been better fed than many other peoples, Americans in the last few decades actually have developed a better physique as a nation, in the opinion of Prof. Agnes Fay Morgan of the University of California.

It now remains, she says, to see if nutriment may not have some bearing on the solution of other problems, such as the prevention and cure of malignant growths, such as cancer; the control of susceptibility to infectious diseases, and the prevention of the circulatory and metabolic diseases which are now the chief causes of death of middle-aged and elderly persons.

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## FRACHAT



## LAMBDA CHI ALPHA

"Bill" Richards sort of fell into his own trap the other day. In fact he was the only one that was caught in it. Bill set up a Ford coil in his car and then invited the brothers to try and find out what was wrong with the battery. A lot of us got close but none got caught.

"Dick" Gray and his brother were around to the house Wednesday. Dick is coming back to school next year.

The annual pledge dance will be held Friday, January 18. Everything points to a record crowd. The Boyntonians will furnish the music.

Blair Whitcomb has been causing the brothers quite a little worry during the last few days. There is a peculiar, dark patch growing on his upper lip and at times he acts sort of childish. It has been said that if half of it was either rubbed or scraped off it would help quite a bit. We hope some such cure can be effected.

The blind date that Bill Richards had at the Interfraternity Ball was apparently interesting enough to make Bill go to Boston Saturday night.

Pee Wee Cole has been telling us all about his school-days back in North Carver. It's all very interesting if we can believe all he tells us.

Art Tripp came through with a birthday cake last Wednesday and Ray Linsley followed him up with one on Sunday.

## ALPHA TAU OMEGA

The other day the Worcester police received a teletype stating that there was a man's body lying in the road near Worcester. Upon investigation several days later an officer found that it was only Angy trying to burrow under his "berry crate."

Six Gun MacDonald's social status has gone up about seventeen and a half points since he started hobnobbing with the Hepburns. Kate, as he blithely calls her, is very nice, but he has given us to understand that her sister is even nicer. Bring her around some day, Mac, and let us judge for ourselves.

A short time ago Smitty had written on his memo pad, "Think up a joke to spring at dinner tonight." We suppose, however, that he lost the pad—for we haven't heard anything that sounded like a joke yet. The big joke is that he still swears up and down that he lost his Fraternity pin down a "hot air register." Well, since Mr. Smith seems to be the goat this time, we might add our sincere congrats for taking a third place in the Trinity meet. (Hint: there was only one other swimmer in the race, but he copped the first two places.)

A very successful pledge dance was held at the house Friday night, which might, by the way, explain the absence of any of the boys who missed Saturday eight o'clocks. About twenty-five couples were present, dancing to the mal-odious strains of the Boyntonians. The chaperones were Mr. and Mrs. Richard Dase and Mr. and Mrs. Leon Sargent.

The rule has been proven—they do come back. What? One Fraternity pin inscribed on the back, "J. E. T." Take a bow, Jack.

## THETA UPSILON OMEGA

Everyone went home for the Christmas holidays in a gay mood. A formal dinner was held preceding the Interfraternity ball. The dance was doubtless one of the best ever held and

the brothers arrived home tired but happy.

During the Christmas vacation the annual National Convocation of Theta Upsilon Omega was held at our chapter house. Delegates were present from all our chapters. Additional housing facilities were made possible through the kindness of Phi Sigma Kappa during the week-end of Dec. 28, 29 and 30.

We regret the absence of Dix Robbins who was operated on for appendicitis last Tuesday. He is recovering rapidly and we hope to have him back with us soon.

Our annual Pledge Dance was held Saturday evening from 10:00 till 2:00 o'clock. There was a large number in attendance. Many alumni were present and it was agreed to be a very fine dance. We were pleased to have visitors from several houses on the Hill. Music was furnished by Glenn Cross.

## THETA CHI

This year's award for the best story on "How I enjoyed the Christmas holidays" goes without dispute to Messrs. Wiley, Taylor, Howland, and Moore, who are still adding memories of incidents in connection with the Florida Convention. If we are to accept everything they tell us as true, all the ladies from the state of everlasting beauty and perpetual sunshine are tall, dark-haired, olive complexioned—well they're pretty good. How many broken hearts they left behind them has not as yet been ascertained, but we have our own opinion, knowing the gentlemen in question as we do. The excursion terminated in Worcester the afternoon before classes started, relying on the horn and two wheezing cylinders for motive power.

For the benefit of our prospective guests, we wish to contradict any rumors you may have heard about the state of our animal population. We have just one alligator, Biltmore, who is harmless as a kitten. At present he receives his admirers in state from the luxuriant depths of the bathtub. Rex, the dog, though of a somewhat roving nature, is also harmless and really a charming personality to meet.

For those who enjoy a good free-for-all scrap we recommend the intramural basketball games. The house team has been training like a crew of gladiators for these bi-weekly contests.

It was noticed at the Trinity game Saturday night that some of the fellows are back in circulation, while still others in open and aggressive defiance of precedent escorted total strangers. Your correspondent finds himself in an embarrassing position after all those remarks about "familiar combinations." However, the Pledge dance next Saturday may find things running in more conventional channels.

To the ladies at Wheaton: We're sincerely sorry that none of us managed to get down there over the weekend. However, we suggest that you examine any alibis quite rigorously for discrepancies, for some of your friends have not yet accounted for the time spent over the recess.

## PHI SIGMA KAPPA

Visitors at the house this weekend: George Sargent, '34, and George Bramhall of Watertown, Mass., and Huntington Prep.

Lost! one nickname. Joe Johnson is now two foul instead of two point.

Our high scoring center seems to be having his ups and downs on the basketball floor. When he starts coming down it looks like a telephone pole falling.

The Freshmen are cordially invited to come down to the house and mingle with the O'Neil's and the Dooley's. It has been noted that many have taken advantage of this invitation and are enjoying a discussion of "Practical Pointers on Puns" by O'Neil and "How to read the Sport Page," by Dooley.

Ye correspondent was not surprised to see the "Parson" with his big mo-

ment last Saturday at this basketball game. We wonder if she has seen him in a swimming meet.

That feud that started on the top deck seems to have petered out. Rest assured that at least two of those involved are contemplating resuming relations on a larger scale. One of them seems to be stuck on a certain cardboard derby.

That funeral scene that took place last Saturday seems to have gone over with a bang. The fate of the dead-man's pipe was the only thing to mar the proceedings.

## SWIMMING

(Continued from Page 1, Col. 1)

two second places in the 50 yard freestyle and the 150 yard backstroke. Plummer Wiley, captain of the Crimson and Gray, added another second in the 100 yard freestyle. The Boynton Hillers seemed to be constantly bothered by the blue-painted turns in the pool which were longer than the one to which they were accustomed. This was shown several times when the swimmers attempted to plow through the walls.

Hall set his first new record in the 50 yard freestyle in which Harry Grey pushed him most of the way but was unable to meet Hall's finish drive. In

the 100 yard freestyle Hall again sped through to break the previous record, and finally helped Trinity's freestyle relay team smash another mark.

The closest battle of the afternoon was the 150 yard backstroke in which Harry Grey came in scarcely a foot behind Dickerson of Trinity and a stroke ahead of J. Morrison Smith of Tech.

Dick Falvey, in winning Tech's lone first, came from behind after about 100 yards and completed the 200 yards in 2 minutes 58 6/10 seconds, defeating Harry Sinclair of Trinity. Falvey showed Trinity that Tech still knew how to get first places.

## SIGMA XI

(Continued from Page 1, Col. 3)

twenty-five years. In this respect, Prof. Gaffert stated that the power plants of Europe had gone considerably farther than have plants of this country, although he demonstrated how the increase in pressure is not always as valuable as it might seem. The higher the pressure is, the less improvement is made by adding an additional increment, and the costs of increasing the pressure constantly rise so that an economic balance is arrived at of the optimum pressure.

Other methods of improving the efficiency of the system were to bleed some of the steam from the turbine at various points and consequently give a closer approximation to Carnot's cycle, and finally to use other materials in the boiler besides water. Prof. Gaffert mentioned a number of substances whose constitution made them theoretically better than water and explained the advantages of a mercury system. With mercury boilers much better conditions can be secured, and less pressure is necessary to get an efficient system, although it is of course essential that the apparatus be very strongly constructed and well protected from any leaks. In some practice, the substance diphenyl is used in place of mercury or water, and good results are obtained up to a certain temperature over which the substance will decompose.

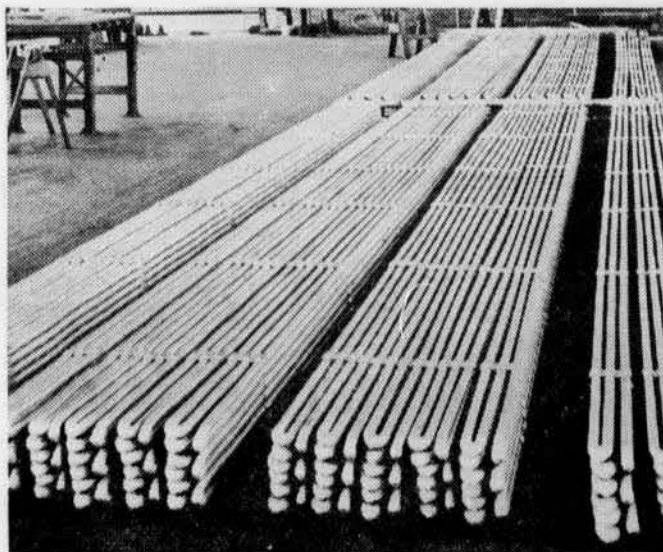
At the close of the meeting, some excellent refreshments were served in the kitchen of the dormitory.

## FENCING

(Continued from Page 1, Col. 4)

group usually meets Mondays at 4:00 P. M. and notices are posted in case the day is changed.

Although you have never held a foil (Concluded on Page 6, Col. 4)



SEVEN HUNDRED WELDS—were needed to make this assembly of aluminum piping.

## New Metals Emphasize Desirability of Jointless Design

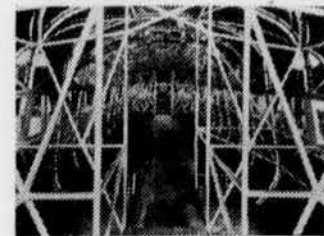
### Welding Preferred Method for Fabricating Jointless Designs from New Materials

By H. E. ROCKEFELLER\*

Welding is an important aid in securing the full benefit of the newer light weight alloys, corrosion- and stain-resistant steels and other ferrous and non-ferrous metals. Jointless welded designs in these new metals make the finished product attractive in appearance, efficient and economical to use and enable it to be priced salably.

## In All Industries

Fabrication by welding can be undertaken without heavy capital expenditures and carried out at low cost. Welding is used in every industry for maintenance, for construction and for the fab-



HERE'S HOW—the framework of the light weight, streamlined rail cars for high speed is Linde-welded from chrome-molybdenum steel tubing.

rication of many products. The welding of mechanical refrigerators and gas ranges is typical of its production applications. Other typical applications include welding of chromium steel for resistance to sea water corrosion on seaplane pontoons, welding aluminum fuel tanks for airplanes, welding of the frame work of alloy steel on the new high speed railroad trains, welding of stainless steel beer barrels and innumerable other familiar products.

## Welding is Simple Production Tool

Welding is the preferred method of fabricating almost every design in modern metals. Jointless welding can be done rapidly with a minimum of preparation of the pieces to be joined. Under procedure control providing jigs for positioning pieces, production can be as rapid and as free from rejections as any highly developed factory process. From the plant equipment standpoint it is easy to adopt welding. From the personnel standpoint the welding technique is quickly acquired through instruction by competent engineers.

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Products fabricated by welding are jointless, leakproof, permanent and safe. Improved methods of testing make it possible to tell exactly what stresses or loads a jointless welded assembly can take. Metals of different compositions, providing the most suitable material for the service it is to perform, can be welded into sound unified assemblies forever free from any of the losses which occur from joint failures.

## Specialized Welding Assistance

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\*Engineer, Development Section, The Linde Air Products Company, Unit of Union Carbide and Carbon Corporation.



**PROF. TAYLOR CHAPEL TALK**

(Continued from Page 1, Col. 5)

environment. They are qualities that can be developed and, to some extent, taught.

In all of a man's life there is no period more timely, nor an opportunity more generous, for the development of ability, will, and teamwork than college years. The serious danger in that period is that one quality may be neglected in the pursuit of the other two. A man may develop such determination for concentration on mental attainment as to impair his health and strength, which are also essential parts of the ability to do. Or, he may overlook the need for teamwork with the elements of personality training and social accomplishments, that go with it. On the other hand he may give most of his energy to personality and social development only to emerge without the mental ability to do.

Classrooms by their very nature are inadequate to develop all three qualities. For the most part they are consecrated to the development of ability to do. I have worked with men who knew far better than the rest of us how to build a bridge but who were superceded because they lacked the will power to get the work done, or

because they could not get along with the other men whose teamwork was essential to its completion. They had gained much from the classroom but not all.

Laboratories supply some opportunity for developing teamwork. So does a college paper, so does a fraternity. A glee club or an orchestra would be but a jumble of sound without it. Therefore these activities must be rated as contributory parts of college education, since they supply elements not often found in classrooms.

Where in the rounded program of college shall athletics and competitive sports be placed? Athletics, best defined as activities engaged in for physical development or for fun, certainly fill a need if success depends on health and endurance. They, also, develop a capacity for teamwork.

Competitive sports have a far broader significance. Though participated in by but a few men, they typify the whole college, for the team is the college for the moment. They are on the field, the court, or the track not so much for physical training as to win the contest for the college. They are developing not only for themselves but for their college mates the will to win. Engineering is a rugged profession.

It brooks no losses, and is no place for a man who is soft willed. In the military establishment the engineers stand at the top, not only because they are credited with having the most ability to cover tough assignments but because of their will to win. The colonel for whom I was adjutant knew the value of training men to win. Whether it was an athletic event, a military formation, or a contest in mass singing, every man was taught to concentrate on success. They did win, and because they won every man looked upon that regiment as the finest organization in the army—they still think so. Here on Boynton Hill we have an organization one-third the size of an engineer regiment. With a little more concentration on winning, the development of a buoyant belief that this is the finest engineering college in the country should be easy.

I have the highest respect for scholarship, but scholarship alone does not make great engineers. Worcester is so small in size and so generously endowed not only in money but in teachers and equipment that it should produce only well-rounded men of exceptional promise. The types of men it produces depends, however, on the types of men it admits more than upon

any other single factor. It should select only such men as combine scholastic ability, strong physique and personality. If the freshmen of the future are boys not only of good scholastic standing but boys who have caught something of the will to win and of the teamwork spirit on prep school teams, the broader aims of this college will soon be realized.

No college of fine traditions and high ideals is true to its ideals and traditions if it subsidizes mere athletes. Nor is it more commendable if it subsidizes mere student hermits. If subsidizing is to be done, let it stand out as an honest aid to boys who are capable of developing all the qualities that are needed to win. America tomorrow will be guided by winners. Worcester Tech should provide a liberal share.

**FENCING**

(Continued from Page 5, Col. 5)

in your life, do not consider this a handicap, the fact being that you will not have anything to unlearn, and can start right from the beginning under the able instruction of Signor Pappano. For further particulars see Mason Whiting or Earl Vickery.

Let's see a large bunch of fellows at the next meeting. Watch for notices

in Boynton Hall and the Gym. We'll be seeing you Mondays.

**RADIO CLUB**

(Continued from Page 1, Col. 4)

analysed the behavior of a transmitter when different adjustments were made. A line of green light on the white screen of the cathode ray tube showed very graphically the action of the electric current.

The oscilloscope experiments for changing sounds into waves of light proved to be very popular with the audience. Weird sounds and belches proved to have interesting wave formations even if they are taboo socially.

Mr. Reinartz spoke very informally and asked the audience to verify his explanations by their own experience. He stressed how little we know about radio in general and that much remains to be developed. He is an ardent amateur and operates the amateur station WIQP.

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